IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A spatio-temporal filter unit (100), provided withcomprising a sigma filter (112), to reduce the for reducing noise in images, characterized in that the sigma filter (112)—comprises one filter kernel (107)—designed to operate for operating on pixels from both a current image and from the—an output (118)—of the spatio-temporal filter unit, being—said output supplying a temporally recursive filtered image.

	2. (Currently Amended) A—The spatio-temporal filter unit (100)
	as claimed in Claim 1, characterized in that it said spatio-
	temporal filter unit further comprises:
	a spatial pixel buffer (104) to store for storing pixels of
5	the current image as supplied to the spatio-temporal filter unit;
	a spatial pixel selector (106) to selectfor selecting
	pixels from the spatial pixel buffer (104);
	a temporal pixel buffer (108) to buffer for buffering
	pixels from the output $\frac{(118)}{}$ of the spatio-temporal filter unit,
10	being a temporally recursive filtered image; and
	a temporal pixel selector (110) to selectfor selecting
	pixels from the temporal pixel buffer (108); and,

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- —wherein the sigma filter (112) is coupled to an output of said spatial pixel selector and to an output of said temporal pixel selection, said comprising one filter kernel (107) designed to operate operating on the pixels from both the spatial pixel selector (106) and the temporal pixel selector (110).
- 3. (Currently Amended) A—The spatio-temporal filter unit (100) as claimed in Claim 2, characterized in that it—the sigma filter comprises an adaptive sigma filter—(112).
- 4. (Currently Amended) A—The spatio-temporal filter unit (100) as claimed in Claim 3, characterized in that an aperture of at least one of the pixel selectors, being the temporal pixel selector (110)—and the spatial pixel selector (106), the aperture can be adjusted is adjustable.
- 5. (Currently Amended) A—The spatio-temporal filter unit (100) as claimed in Claim 4, characterized in that at least one of the pixel selectors, being the temporal pixel selector (110)—and the spatial pixel selector (106), is designed such that the—a distance between the selected pixels is adjustable.
- 6. (Currently Amended) A The spatio-temporal filter unit (200) as claimed in Claim 4, characterized in that it said spatio-

15

temporal filter unit further comprises a motion detector (224)

designed to detectfor detecting motion, said motion detector

controlling and to control the aperture of the temporal pixel selector (210) based on the detected motion.

- 7. (Currently Amended) A-The spatio-temporal filter unit (200) as claimed in Claim 4, characterized in that it said spatio-temporal filter unit further comprises a motion estimator (222) designed to supplyfor supplying motion vectors, said motion estimator controlling a and to control the position of the temporal pixel selector (210) related relative to the temporal pixel buffer (208), based on the motion vectors supplied by the motion estimator (222).
- 8. (Currently Amended) A-The spatio-temporal filter unit (200) as claimed in Claim 4, characterized in that it—said spatio-temporal filter unit further comprises a noise estimator (220) designed to estimate for estimating a noise level in the current image—and to—control, said noise estimator controlling the aperture of at least one of the pixel—selectors, being the—temporal pixel selector (210)—and the spatial pixel selector (206), based on the estimated noise level.

- 9. (Currently Amended) A-The spatio-temporal filter unit (200) as claimed in Claim 4, characterized in that it said spatio-temporal filter unit further comprises a noise estimator (220) designed to estimate for estimating a noise level in the current image and to control, said noise estimator controlling thresholds of the adaptive sigma filter (212), based on the estimated noise level.
- - 11. (Currently Amended) An image display apparatus (300) comprising:

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	receiving means (302) for receiving a signal representing
	images;
5	a display device (306)—for displaying the images; and
	a spatio-temporal filter unit (100), provided
	with comprising a sigma filter (112), to reduce the noise for
	reducing in the images, characterized in that it said spatio-
	temporal filter unit further comprises:
10	a spatial pixel buffer (104) to store for storing pixels of
	a current image as supplied to the spatio-temporal filter unit;
	a spatial pixel selector (106) to selectfor selecting
	pixels from the spatial pixel buffer—(104);
	a temporal pixel buffer (108) to buffer for buffering
L 5	pixels from the output (118) of the spatio-temporal filter unit,
	being said output supplying a temporally recursive filtered image;
	and
	a temporal pixel selector (110) to selecting
	pixels from the temporal pixel buffer (108); and,
20	-wherein the sigma filter (112), being is an adaptive sigma filter
	and is coupled to an output of said spatial pixel selector and an
	output of said temporal pixel selector, said sigma filter
	comprising one filter kernel (107) designed to operate for operating
	on the pixels from both the spatial pixel selector (106) and the
25	temporal pixel selector (110).